Social, Legal and Research Issues

Nick Riley British Geological Survey





- At Sacroc and Weyburn we found a high degree of social acceptance-even local pride about the CO₂ EOR activities
- Operators take special care to inform the local community and listen/respond to their concerns
- University of Regina runs special school workshops on CO₂
- In Canada public debate about Kyoto was of high quality



























APG TF

There are no legal frameworks in place specific to underground storage of CO₂

Frameworks exist for:

- Acid gas disposal
- CO₂ pipelines/handling
- EOR operations
- Aquifer protection
- H&S

All activities using CO₂ in N. America are onshore





RESEARCH ISSUES

- Reduce capture costs and plant footprint
- Speed up mineral carbonation rates
- Develop cost effective long-term monitoring technologies
- •Understand geological and well integrity WRT CO₂ exposure/storage
- Effect of pH swings in the subsurface
- Geo-mechanical processes associated with CO₂ exposure/injection
- Enhanced gas recovery
- Offshore application of EOR
- Optimise reservoir management and modelling
- •Understand potential CO₂ leakage impacts on biosphere and humans
- Develop pipeline pig which can operate in dense phase CO₂



